



What Is Green Purchasing, Anyway?

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The Federal Footprint

- Spent \$500 billion on goods and services in FY 2008
- Owns or leases more than 645,000 non-tactical vehicles worldwide
- Manages or owns nearly 1 in every 5 acres in the U.S.
- Single largest domestic buyer and user of energy
- Real property portfolio of nearly 900,000 assets, including more than 400,000 buildings
- Spends \$3.5 billion annually to provide energy to its facilities
- Purchases about \$74 billion worth of IT equipment and services per year.





PROGRAM SCOPE

- **Recycled content products**
- **Energy- and water-efficient products**
 - Standby power devices
 - ENERGY STAR and FEMP-designated products
 - EPEAT-registered products
 - WaterSense
- **Alternative fuel vehicles/alternative fuels**
- **Biobased products**
- **Environmentally preferable products**
 - Green cleaning products and services
 - Cafeteriaware, especially biobased content products
 - Building products
 - Green meetings and conference services
- **Non-ozone depleting substances**
- **Low or non-toxic or non-hazardous chemicals**



The Federal Green Purchasing Program

- **The program components were established as individual programs by various statutes and executive orders.**
- **The purpose is to create, demonstrate the viability of, and sustain markets for green products and services.**



Legal Basis

- Recycled content: Resource Conservation and Recovery Act (RCRA), Section 6002
- Biobased content: Farm Security and Rural Investment Act (2002 Farm Bill), Section 9002
- Energy efficient products and alternative fuel vehicles: Energy Policy Act of 1992 and 2005
- Building energy efficiency: Energy Independence and Security Act of 2007
- Non-ozone depleting substances: Clean Air Act
- Chemicals: Pollution Prevention Act of 1990
- Executive Orders 13423, 13221, and 13514
- Federal Acquisition Regulation



WHY BUY GREEN?

*"As the largest consumer of energy in the U.S. economy, the Federal Government can and should lead by example when it comes to creating innovative ways to reduce greenhouse gas emissions, increase energy efficiency, conserve water, reduce waste, and **use environmentally responsible products and technologies.**"*

- President Barack Obama, October 5, 2009



WHY BUY GREEN?

E.O. 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, 1/24/07

“The head of each agency shall require in agency acquisitions of goods and services, (i) use of sustainable environmental practices, including acquisition of biobased, environmentally preferable, energy-efficient, water-efficient, and recycled content products, and (ii) use of paper of at least 30% postconsumer fiber content.”



WHY BUY GREEN?

E.O. 13423, Strengthening Federal Environmental, Energy, and Transportation Management, 1/24/07

“The head of each agency shall ensure that the agency reduces the quantity of toxic and hazardous chemicals and materials acquired, used or disposed.....”



WHY BUY GREEN?

E.O. 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, 1/24/07

“The head of each agency shall ensure that new construction and major renovation of agency buildings comply with the *Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings*....”



WHY BUY GREEN?

E.O. 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, 1/24/07

“The head of each agency shall ensure that the agency, when acquiring an electronic product to meet its requirements, meets at least 95% of those requirements with an Electronic Product Environmental Assessment Tool (EPEAT)-registered product, unless there is no EPEAT standard for such product.....”



Why Buy Green?

E.O. 13514, *Federal Leadership in Environmental, Energy, and Economic Performance*, 10/5/09

- **The head of each agency shall advance sustainable acquisition to ensure that 95 percent of new contract actions including task and delivery orders, for products and services include green products**
 - **Products include: recycled content products, Energy Star and FEMP-designated energy-efficient products, water-efficient products, biobased products, environmentally preferable products and services, Electronic Product Environmental Assessment Tool (EPEAT)-registered products, products containing non-ozone depleting substances, or non-toxic or less-toxic alternatives**
 - **Exception if products and services don't meet agency performance requirements**
 - **30 percent postconsumer fiber requirement for office papers**



Why Buy Green?

- **E.O. 13514 greenhouse gas reductions – scope 3 emissions (other indirect GHG emissions) – include purchased products and services.**
 - Pursue opportunities with vendors and contractors to address and incorporate incentives to reduce greenhouse gas emissions (such as changes to manufacturing, utility or delivery services, modes of transportation used, or other changes in supply chain activities)
 - Implement strategies and accommodations for transit, travel, training, and conferencing that actively support lower-carbon commuting and travel by agency staff



Why Buy Green?

- **Other E.O. 13514 goals have acquisition implications**
 - **Landscaping:** Reduce water consumption and implement integrated pest management
 - **Alternative chemicals:** Same as E.O. 13423 -- Reduce and minimize the quantity of toxic and hazardous chemicals acquired
 - **Facility siting:** Ensure that planning for new Federal facilities or new leases includes consideration of sites that are pedestrian friendly, near existing employment centers, and accessible to public transit, and emphasizes existing central cities and, in rural communities, existing or planned town centers



Why Buy Green?

- **Other E.O. 13514 goals with acquisition implications (cont'd)**
 - **High performance/sustainable buildings:** Continue existing E.O. and statutory requirements + design for zero-net-energy beginning in 2020 planning process
 - **HP/SBs:** Use innovative strategies to minimize consumption of energy, water, and materials, including reflective and vegetative roofs
 - **HP/SBs:** Incorporate recovery, reuse, and recycling of C&D materials and debris during construction or renovation activities



Why Buy Green?

- **Other E.O. 13514 goals with acquisition implications (cont'd)**
 - **Renewable energy:** purchased electricity from renewable generating sources and installation of on-site projects
 - **Electronics:** Purchase office equipment with duplexing capability and other environmentally preferable features, Energy Star or energy efficient data center equipment, and recycling or environmentally sound disposal services for end-of-life management of excess or surplus equipment



MYTHS ABOUT BUYING GREEN

- **Inconsistent with efforts to be more like corporate America.**
- **Inconsistent with buying COTS items.**
- **Inconsistent with requirement to buy from mandatory sources.**



GREEN PURCHASING CAN BE ACCOMPLISHED THROUGH:

- **Purchase card/fleet card purchases**
- **Simplified acquisitions (<\$100,000)**
- **Larger (>\$100,000) purchases of supplies**
- **Support services contracts**
- **Detailed scopes of work or performance-based contracting**
- **Purchases from mandatory sources**



What's in the FAR?

Part 23- Environment, Energy and Water Efficiency, Renewable Energy Technologies, Occupational Safety, and Drug-Free Workplace

- **23.403 Policy-** “Government policy on the use of recovered materials and biobased products considers cost, availability of competition, and performance.” The objective is to acquire competitively, in a cost-effective manner, products that meet reasonable performance requirements and that are composed of the highest percentage of recovered materials or biobased materials practicable.



What's in the FAR?

- **23.202 Policy:** “The Government’s policy is to acquire supplies and services that promote energy and water efficiency, advance the use of renewable energy products, and help foster markets for emerging technologies. This policy extends to all acquisitions, including those below the simplified acquisition threshold.”



What's in the FAR?

- **23.703 Policy:** Government policy on the acquisition of environmentally preferable, energy efficient, and water conserving products and services.



What's in the FAR?

Think green from the start of an acquisition.

- **FAR Section 7.105(b)(16)** requires written acquisition plans to: “discuss all applicable environmental and energy conservation objectives associated with the acquisition...”



What's in the FAR?

Incorporate green products when describing agency needs

- **FAR Section 11.002(d)(1):** “When agencies acquire products and services, various statutes and executive orders require consideration of:
 - Energy-efficient products and services
 - Products and services that utilize renewable energy technologies
 - Products containing energy-efficient standby power
 - Products containing recovered materials
 - Biobased products
 - Environmentally preferable products and services”



What's in the FAR?

Minimum need for paper

- **FAR Section 4.302 Policy:** “A contractor should submit paper documents....printed or copied double-sided on recycled paper whenever practicable. If the contractor cannot print or copy double-sided, it should print or copy single-sided on recycled paper.
- **FAR Section 11.303:** Our minimum need is for 30% postconsumer content printing and office paper:
 - Offer documents
 - Reports and studies
 - Training materials
 - Publications
 - Financial and technical progress reports



What's in the FAR?

- The green purchasing requirements apply to:
 - Direct purchases of products
 - Products supplied or used in the performance of a contract
 - Micro-purchases
 - Simplified acquisitions
 - Purchases of commercial items



What's in the FAR?

- When buying green, we can use detailed scopes of work or performance-based contracting.
- Performance-based contracting was used successfully to incorporate green elements into the Pentagon renovations.



FAR Clauses – Recycled Content

- **For recycled content paper:**
 - 52.204-4 Printed or Copied Double-Sided on Recycled Paper
- **For affirmative procurement:**
 - 52.223-4 Recovered Materials Certification (revised 4/22/08 to change “products” to “items”)
 - 52.223-9 Certification and Estimate of Percentage of Recovered Material Content for EPA Designated Items
 - (Use only on contracts exceeding \$100,000; revised 4/22/08 to change “products” to “items”).)
- **For support services and O&M contractors:**
 - FAR 52.223-10 Waste Reduction Program



FAR Clauses – Recycled Content

**52.223-17 Affirmative Procurement of
EPA-Designated Items in Services and
Construction Contracts (effective May
22, 2008)**



FAR Clauses -- Biobased

- **52.223-1 Biobased Product Certification (effective December 7, 2007)**
- **52.223-2 Affirmative Procurement of Biobased Products Under Service and Construction Contracts (effective December 7, 2007)**



FAR Clauses – Energy Star and Energy Efficient Products

- **52.223-14(b)(1)(viii) Terms and Conditions – Simplified Acquisitions (effective December 24, 2007)**
- **52.223-15 Energy Efficiency in Energy-Consuming Products (effective December 24, 2007)**
 - Applies to products delivered, used in the performance of the work, furnished for government use, or specified in the design of a building or work.



FAR Clauses – EPEAT-Registered Products

- **52.223-16 – basic clause for purchasing EPEAT bronze products**
- **Alternate I – used for purchasing EPEAT silver products**



Pending FAR Revisions

- Conforming changes for E.O.s 13423 and 13514



Recycled Content Products

- Legal basis: Resource Conservation and Recovery Act section 6002, E.O. 13423
- What's required: Purchase EPA-designated recycled content products



EPA's 8 Product Categories

- Vehicles
- Construction
- Transportation
- Parks and Recreation
- Landscaping
- Non-Paper Office Products
- Miscellaneous
- Paper and Paper Products



What To Buy Green

- Office products
- Printing services
- Fleet maintenance products
- Building construction, renovation, and maintenance (janitorial, landscaping) products
- Traffic control
- Parks and recreation products



Where to Buy Green

- GSA Advantage! (CPG symbol, recycling symbol)
- DoD EMALL
- AbilityOne
- UNICOR/Federal Prison Industries
- Commercial sources



Cool Stuff

- EPA entered into a **blanket purchase agreement** with Corporate Express to supply recycled content and environmentally preferable office products.
- The Naval Undersea Warfare Division, Newport, has an agreement with Office Depot to supply green office products.
- Both agreements require the vendor to report what was purchased.



Cool Stuff

- Homestead Air Reserve Base created an **Environmentally Friendly Products Section** at the base supply store.
- Sandia National Labs added **green contract language to the template for all construction contracts**. This template is used by all project managers when requesting proposals from new contractors and developing work scope for pre-approved contractors.



Where to Find More Information

www.epa.gov/cpg



ENERGY STAR® and FEMP- Designated Products and Low Standby Power Devices

- Legal basis: Energy Policy Act, Energy Independence and Security Act of 2007, E.O.s 13423, 13514, and 13221
- What's required: Reduce building energy use; purchase ENERGY STAR and FEMP-designated products, products that use minimal standby power; renewable energy; and EPEAT-registered products



What To Buy Green

- Electronic office products
 - Low standby power devices
 - EPEAT-registered products
- Building construction products
- Appliances (residential and commercial)
- Lighting
- Water-saving products



ENERGY STAR and Energy Efficient Products

- Energy Policy Act of 2005 requires Federal agencies to purchase ENERGY STAR and FEMP-designated energy efficient products
- Exception: Head of agency determines, in writing, that
 - Not cost effective over the life of the product or
 - No product is reasonably available that meets the agency's functional requirements



ENERGY STAR and Energy Efficient Products (Cont'd)

- Energy Independence and Security Act of 2007 requires Federal agencies to purchase products using low wattages of power in standby mode.
- DOE to create a list of products and wattage levels.



ENERGY STAR and Energy Efficient Products (Cont'd)

- New energy efficiency standards for more than a dozen consumer and commercial products, including:
 - Fluorescent lamps and lamp ballasts
 - Illuminated exit signs
 - Transformers
 - Ceiling fans/ceiling fan light kits
 - Commercial package air conditioning and heating equipment
 - Refrigerators, freezers, and refrigerator-freezers
 - Commercial ice makers
 - Commercial clothes washers



ENERGY STAR and Energy Efficient Products (Cont'd)

- Energy Independence and Security Act of 2007 added additional energy efficiency standards for various products and/or required DOE or EPA to establish additional energy efficiency standards.



ENERGY STAR and Energy Efficient Products (Cont'd)

- New ENERGY STAR web site for Federal purchasers:

http://www.energystar.gov/index.cfm?c=fed_agencies.fed_ag_index

- Designed to assist Federal agencies in meeting the requirements to purchase Energy Star, FEMP-designated, and EPEAT-registered products and those with low standby power.



ENERGY STAR and Energy Efficient Products (Cont'd)

Sample contract language:

The Vendor Must:

Provide new and repaired computers, monitors, and integrated computer-monitor systems that earn the ENERGY STAR and are configured properly for automatic energy-saving features, as per current ENERGY STAR specifications. The vendor shall provide customer support with respect to power management features, such that these features remain properly enabled and repaired if a malfunction occurs. The vendor is encouraged to visit www.energystar.gov for complete product specifications and an updated list of qualifying products.



Buying EPEAT™ Registered Products

- Update all contracts to reflect E.O. 13423 and 13514 requirements to buy EPEAT-registered products.
- Specify EPEAT-registered products in every task order.
- Use list of EPEAT-registered products at www.epeat.net.
- Buy from resellers who identify EPEAT- registered products.
- Buy off Government Wide Acquisition Contracts which identify EPEAT registered products (NASA SEWP IV and ODIN, GSA Alliant).



EPEAT Tiers

- **EPEAT Bronze**— Meets all 23 mandatory criteria
- **EPEAT Silver**— Meets all mandatory criteria and at least 50% of the optional criteria
- **EPEAT Gold**— Meets all mandatory criteria and at least 75% of the optional criteria

Recommended Contract Language

There are a number of mandates that require federal procurement officials to assess and give preference to those products and services that are environmentally preferable, including Executive Order *****, the Energy Policy Act of 2005, and the Federal Acquisition Regulations (FAR) subpart 23.703.

(Agency/Department) is also one of the twelve Federal Agencies participating in the White House's Federal Electronics Challenge

(<http://www.federalectronicschallenge.net>), demonstrating our commitment to reducing the impact of electronics on the natural environment throughout their life cycle. As part of our work under this Challenge,

(Agency/Department) has committed to buying products that meet the mandatory criteria of the Electronic Products Environmental Assessment Tool (EPEAT). All desktops, laptops, and computer monitors provided under this contract are required to have achieved Bronze registration or higher under the Electronic Products Environmental Assessment Tool (EPEAT). EPEAT is a procurement tool designed to help large volume purchasers evaluate, compare, and select desktop computers, laptops, and monitors based upon their environmental attributes as specified in the consensus-based IEEE Standard for the Environmental Assessment of Personal Computer Products (1680).

Additional consideration will be provided for products that have achieved EPEAT Silver or EPEAT Gold registration. The registration criteria and a list of all registered equipment are provided at <http://www.epeat.net>.






Recommended Contract Language

- Suppliers are required to indicate EPEAT registered products on their electronic catalogs that customers may buy from through this contract. Suppliers are required to provide quarterly reports quantifying the number of EPEAT registered products purchased under this contract. The information must be reported in a matrix providing the following data for the current quarter, the fiscal year, and the duration of the contract.

EPEAT Registered Products

(as of 10/22/09)

EPEAT Quick Search Tool

Product	 BRONZE	 SILVER	 GOLD	Total
Desktops	5	31	57	93
Integrated Desktop Computers	0	38	11	49
Monitors	1	422	70	493
Notebooks	25	341	270	636
Totals	32	841	424	1297



Building Energy Reduction Goals

- E.O. 13423 added new energy reduction goals, compared to FY 2003 – reduce energy intensity by
 - 3% annually through end of FY 2015 OR
 - 30% by end of FY 2015
- Includes industrial and laboratory facilities
- Under E.O. 13514, method for reducing greenhouse gas emissions.



Federal Building Performance Standards

- If life-cycle cost effective, new buildings must be designed to achieve energy consumption levels 30% below ASHRAE Standard 90.1-2004 or the 2004 International Energy Conservation Code
- Sustainable design principles must be applied to the siting, design, and construction of all new and replacement buildings



Renewable Energy Portfolio

- EPAAct 2005: When economically feasible and technically practicable, Federal government is to use renewable energy from solar, wind, biomass, landfill gas, waves, geothermal, MSW, or new or expanded hydro sources:
 - FY 2007 – 2009 – not less than 3%
 - FY 2010 – 2012 – not less than 5%
 - FY 2013 and after – not less than 7.5%
- E.O. 13423: Buy half from “new” sources, put in place after 1/1/99



Where to Buy Green

- GSA Advantage! (Energy Star symbol, EE symbol)
- DoD EMALL
- Commercial sources



Cool Stuff

- The U.S. Air Force is the largest Federal user of energy from renewable sources and the 7th largest user of EPA's Green Power partners.
- EPA uses green power for 100% of its national electricity consumption.
 - Purchased power
 - Renewable energy certificates (tags)
- Federal agencies installed more than 3,000 **solar energy** systems by the end of 2003.



Where to Find More Information

http://www1.eere.energy.gov/femp/technologies/procuring_eeproducts.html

www.energystar.gov

www.epeat.net



Alternative Fuel Vehicles/Alternative Fuels

- Legal basis: Energy Policy Act, E.O. 13423 and 13514
- What's required: Purchase alternative fuel vehicles, alternative fuels, and recycled content vehicular products; use low greenhouse gas emitting vehicles; reduce petroleum consumption



Use of Alternative Fuels

Sec. 701 of Energy Policy Act of 2005:

- Alternative fuels must be used in dual fuel vehicles unless agency certifies and DOE grants a waiver because:
 - Fuel is not available
 - Unreasonable cost compared to gasoline



Greenhouse Gases

The Energy Independence and Security Act of 2007 addresses greenhouse gas emissions:

- Purchase light duty motor vehicles or medium duty passenger vehicles that are “low greenhouse gas emitting,” as determined by EPA
- Alternative or synthetic fuels must have lifecycle greenhouse gas emissions from production and combustion that are lower than that of conventional fuels.



What To Buy Green

- Alternative fuel vehicles
- Neighborhood electric vehicles
- Alternative fuels (e.g., ethanol, CNG, LNG, biodiesel)
- EPA-designated recycled content vehicular products



Where to Buy Green

- GSA (vehicles)
- Defense Energy Support Center
(ethanol, biodiesel)
- Defense Supply Center
Richmond (re-refined oil)
- Commercial sources



Cool Stuff

- In FY 2007, **alternative fuel vehicles** accounted for more than 100% of covered light-duty vehicle acquisitions – well above our 75% requirement.
- We buy ethanol, biodiesel, CNG, and LNG, and use hybrids and other electric vehicles.
- Naval Base Ventura County recycles used cooking oil into biodiesel.
- Both Army and Marine Corps using **hybrid HUMVEEs**.



Where to Find More Information

http://www1.eere.energy.gov/femp/program/fedfleet_management.html



Biobased Products

- Legal basis: Farm Security and Rural Investment Act of 2002 section 9002, E.O. 13423
- What's required: Purchase USDA-designated biobased products



Biobased Products

■ **USDA designations (3/16/06):**

- Mobile equipment hydraulic fluids*
- Urethane roof coatings
- Water tank coatings – effective 11/20/07
- Diesel fuel additives*
- Penetrating lubricants*
- Bedding, bed linens, towels – effective 11/20/07

* excluding combat, combat-related, and space-related applications



Biobased Products (cont'd)

Round 2 (5/14/08)

Adhesive and Mastic
Removers

Disposable Containers

Fluid-Filled Transformers

Composite Panels

Fertilizers

Grease and Graffiti
Removers

Hand Cleaners and Sanitizers

Plastic Insulating Foam for
Residential and
Commercial Construction

Sorbents



Biobased Products (cont'd)

Round 3 (5/14/08)

2-Cycle Engine Oils

Disposable Cutlery

Films

Carpet and Upholstery
Cleaners

Carpets

Dust Suppressants

Glass Cleaners

Greases

Stationary Equipment
Hydraulic Fluid

Lip Care Products



Biobased Products (cont'd)

Round 4 (5/14/08)

Bathroom and Spa
Cleaners

Concrete and Asphalt
Release Fluids

Metalworking fluids

General Purpose De-
Icers

Firearm Lubricants

Floor Strippers

Laundry Products

Wood and Concrete
Sealers



Biobased Products (cont'd)

Round 5 (10/27/2008)

Chain and Cable
Lubricants

Corrosion Preventatives

Food Cleaners

Forming Lubricants

Gear Lubricants

General Purpose

Household Cleaners

Industrial Cleaners

Multipurpose Cleaners

Parts Wash Solutions



Where to Buy Green

- GSA Advantage! (biobased symbol)
- Defense Energy Supply Center
- DoD EMALL
- AbilityOne
- Commercial sources



Cool Stuff

- Seymour Johnson AFB looked for biobased floor scrubbers to help its local wastewater treatment plant reduce phosphate concentrations and pH levels.
 - Commercial floor scrubbers
 - Goal: Formulate a biobased detergent low in phosphates, pH neutral, aggressive in cleaning, and competitively priced
 - Able to meet needs for cleaning golf cart facilities, supply warehouse, and aircraft hangar.



Cool Stuff

- Pope AFB looked for cleaners for the Aerospace Ground Equipment and Propulsion shops that were lower pH but compatible with oil/water separators.
 - Goals: lower pH, solvent-free, left floors meeting safety requirements.
 - Focused on biobased enzymatic products.
 - Used for shop spills of hydraulic fluids, engine oil – and incidently, cleaned oils in the floor scrubbing equipment.
 - Cost per gallon of 90 cents!



Cool Stuff

- Many Federal facilities now use biobased hydraulic oils, greases, lubricants, oils, cleaning products, cafeteria ware, carpet, mastic removers, construction products, and other products.
- PTO recently installed **carpet containing a soy-based backing.**



Where to Find More Information

<http://www.usda.gov/biopREFERRED>

<http://www.usda.gov/procurement/programs/biopREFERRED.htm>



Environmentally Preferable Products

- Legal basis: E.O.s 13423 and 13514
- What's required: Purchase environmentally preferable products and services



What To Buy Green

- Cleaning products and services
- Cafeteria ware
- Electronic office equipment
 - EPEAT-registered equipment
- Meetings and conference services
- Furniture
- Building renovation, construction, and maintenance (janitorial, landscaping) products



New BIFMA Sustainability Standard

- The furniture industry developed a multiple criteria sustainability standard for office furniture, plus a third-party certification program, known as “level.”
- For more information about the standard and the certification program, visit www.levelcertified.org.



Where to Buy Green

- GSA Advantage! (trees symbol)
- DoD EMALL
- AbilityOne
- UNICOR/Federal Prison Industries
- Commercial sources



Cool Stuff

- Department of the Interior led the way in switching to **green cleaning products** and now uses a NISH provider to clean with green cleaners.
- NISH providers also clean the **Pentagon** and other Federal buildings with green cleaners. Even **Statue of Liberty** National Park is cleaned with green cleaners.



Cool Stuff

- In 2003, the Navy revised its mandatory catalog of technical purchase descriptions for **shipboard cleaning products and dispensers** to identify environmentally preferable alternatives.



Cool Stuff

- 2007 revision to EPA's acquisition regulations requires offerors for meeting and conference services to provide information about environmentally preferable features and practices at the offerors' facilities. There are 14 questions about attributes such as:
 - Recycling services
 - Proximity to mass transportation
 - Energy and water efficiency practices in lodging



Where to Find More Information

www.epa.gov/epp



Non-Ozone Depleting Substances

- Legal basis: Clean Air Act, E.O. 13423
- What's required: Purchase alternatives to ozone depleting substances
- SNAP -- EPA's Significant New Alternatives Policy Program identifies alternatives to ozone-depleting substances and provides lists of acceptable and unacceptable substitutes. The web site provides information on product alternatives.



What To Buy Green

- Refrigeration and Air Conditioning
- Foam Blowing
- Solvent Cleaning
- Fire Suppression and Explosion Protection
- Aerosol Solvents and Propellants
- Sterilants
- Tobacco Expansion
- Adhesives, Coatings, and Inks



Where to Buy Green

- GSA Advantage! (SNAP symbol)
- DoD EMALL
- Commercial sources



Cool Stuff

- Federal agencies are installing **alternatives to halon fire suppression systems**.
- Wright-Patterson Air Force Base purchases non-ozone depleting **missile propellants**.
- NASA's White Sands Test Facility uses an **aqueous process to clean spacecraft parts** instead of a freon-based cleaning system.



Where to Find More Information

www.epa.gov/ozone/snap/lists/index.html



Where to Find More Information

Green Products Compilation

<http://www.fedcenter.gov/programs/buygreen/>

Supporting Information and Tools

Databases/Software Tools



What Else is New?

The 2008 Food, Conservation, and Energy Act added new biobased product reporting requirements:

- (i) each procuring agency shall submit each year to the Office of Federal Procurement Policy, to the maximum extent practicable, information concerning --**
 - (III) the number and dollar value of contracts entered into during the year that include the direct procurement of biobased products**
 - (IV) the number of service and construction (including renovations) contracts entered into during the year that include language on the use of biobased products**
 - (V) the types and dollar value of biobased products actually used by contractors in carrying out service and construction (including renovations) contracts during the previous year**



Example: Green Scope of Work

Where applicable on exterior surfaces only, the use of consolidated and reprocessed latex paint meeting the requirements of the Comprehensive Procurement Guide for postconsumer content and total recovered content should be considered, if feasible.

**White, off-white, pastel
colors**

20% postconsumer

**Grey, brown, earthtones,
and other dark colors**

50-99% postconsumer



Example: Green Scope of Work

- The contractor shall meet the goals and objectives of E.O. [13123] and use Energy Star and energy-efficient products in the top 20% of energy efficiency as designated by the Department of Energy.



What parts of the solicitation will you green?

- A – Solicitation/contract form
- B – Supplies or services and prices/costs
- C – Description/specifications/statement of work
- D – Packaging and marking
- E – Inspection and acceptance
- F – Deliveries or performance
- G – Contract administration data
- H – Special contract requirements
- I – Contract clauses
- J – List of attachments
- K – Reps and certifications
- L – Instructions, conditions, and notices
- M – Evaluation factors for award



For More Information

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